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INTERNATIONAL HARVESTER

TRADE MARK

CATALOGUES

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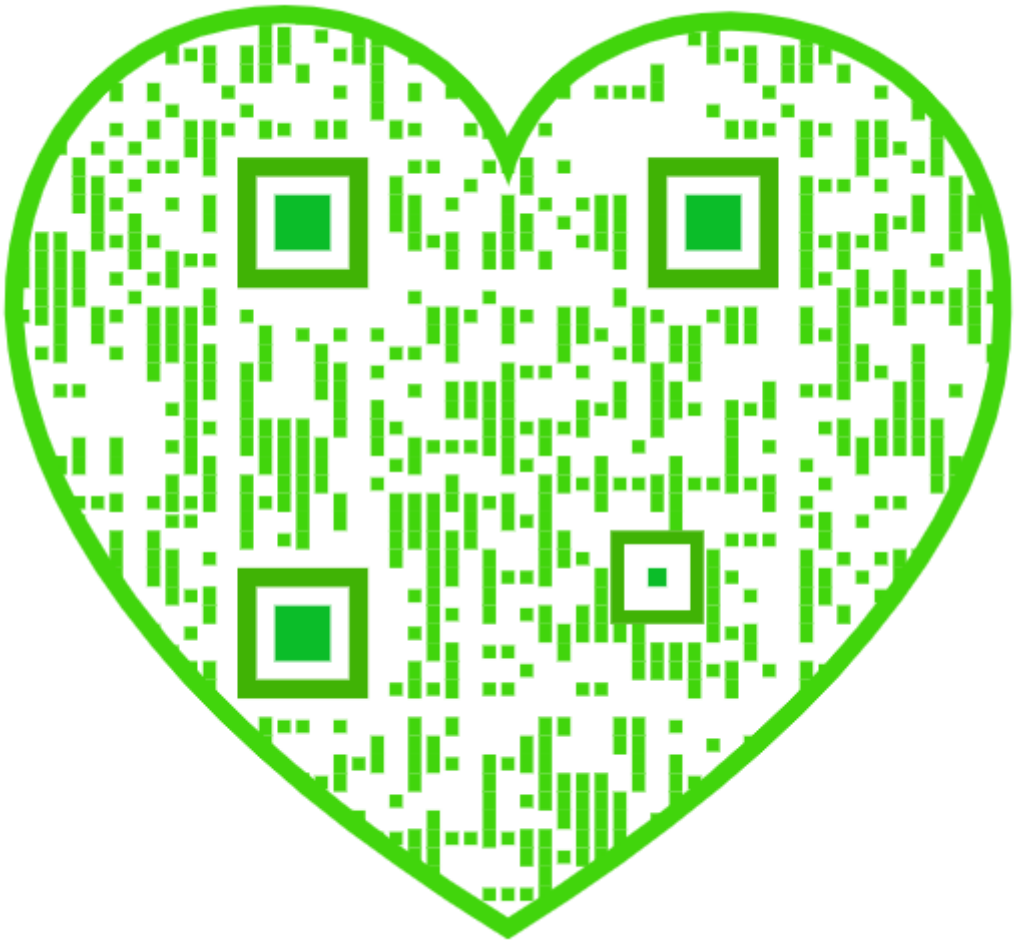
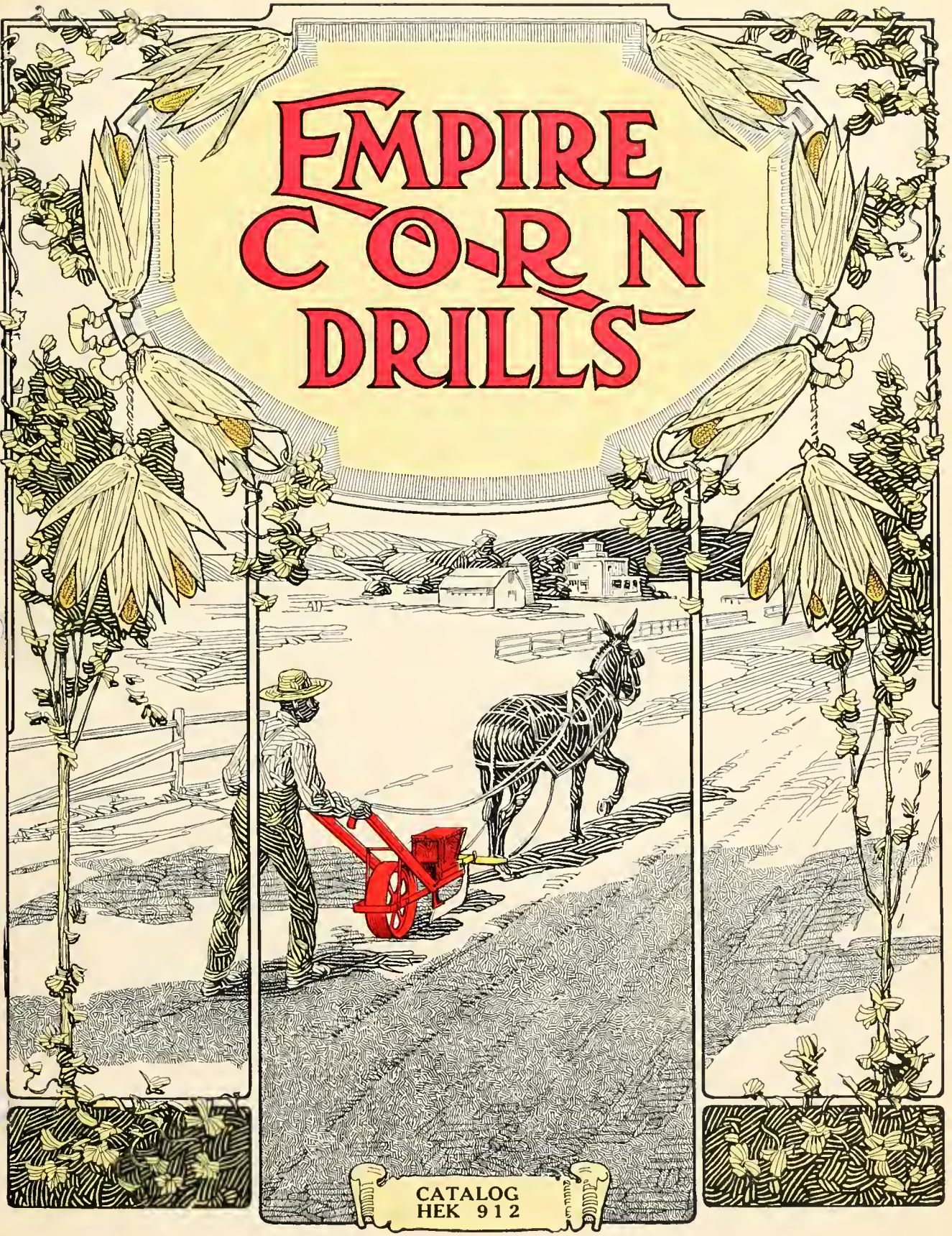


EMPIRE CORN DRILLS



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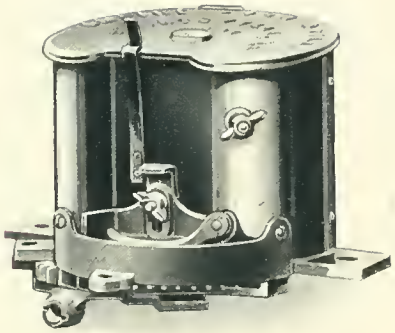


Corn Hopper, Rear View.

FIFTY years ago "The Man with the Hoe" and the woman too, with bent backs and aching bones planted the corn crop of this great country. One of the early steps toward the relief of this condition was the invention of the Empire One-Row Corn Drill.

The construction is simple and strong. Made entirely of steel, cast, malleables and wrought iron, except the handles, the material is distributed in such a manner as to give the greatest strength with least possible weight. High-class material only is used, and both workmanship and material is included in the broad and liberal guarantee of first-class service. Especial care is devoted to selection of steel shoes, hoes and disks. Seed plates are quickly and easily changed and by a simple device, plates of varying thickness may also be used. The many years of great popularity with farmers who have use for such a tool is due to its unusual reliability. Unchanged in basic principles, the Empire of today retains its original simplicity, effectiveness and great durability.

DIFFERENT STYLES. Plain Drills and Fertilizer Drills are supplied in Shoe, Disk or Hoe styles to meet soil requirements of different localities.

Shoes are made with long ground line, gradually up-turning at point, easy to guide and steady in action. The rear flanges open a 1¾-inch trench for seed and prevent dirt from filling in before seed has reached the bottom, thus insuring an even planting and covering.

Double disks are really rolling shoes. They join at the front, standing apart at the rear and open a trench a little wider than the shoe. Bearings are chilled, very smooth, hard and durable. Draft is light and work in trashy fields especially satisfactory.

Hoes have case-hardened steel points and are preceded by a steel knife coulter to assist in opening the furrow. The hoe is an especially simple and strong device.

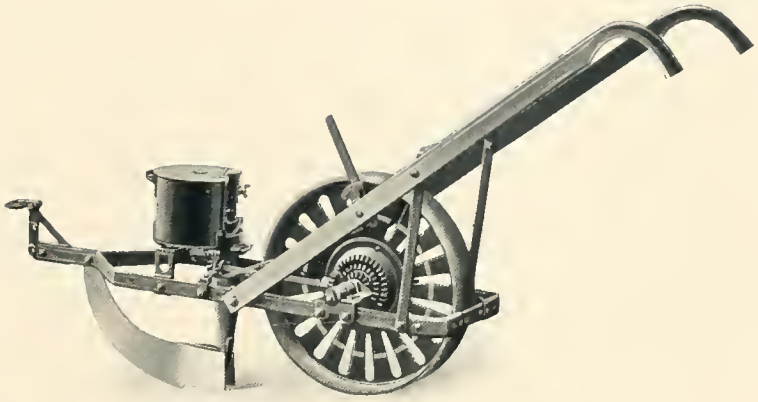
Driving feed rods, square steel shafts, connect the ground wheel to ring gear beneath the hopper for turning the seed plates. A similar device is used for revolving the fertilizer feed cone, it being located on the opposite side of the ground wheel. Adequate adjustment is provided by which the bevel gears on feed rod can be quickly and positively adjusted. Absolutely certain and unhesitating in action under all conditions, this device is particularly satisfactory when heavy, sticky fertilizer is sown.

Corn hoppers on plain drills are of sheet iron sides with cast top and bottom. Rear side is bent inward to give driver a clear view of corn passing to the outlet. The seed plates revolve toward the brush cut-off, which permits but the one kernel chambered in the hole of seed plate to pass out of the hopper. Each seed is carried to the top of the seed tube, where a knocker insures its prompt delivery to the trench.

Metal cut-offs are supplied when ordered, but brush cut-offs are recommended. Seed plates with ten holes are regularly shipped with plain and fertilizer Shoe Drills, ten-hole plates in plain hoe and disk, twelve-hole plates with fertilizer hoe and disk drills. Extra plates with a greater or less number of holes may be procured for dropping at special distances not possible with regular equipment.

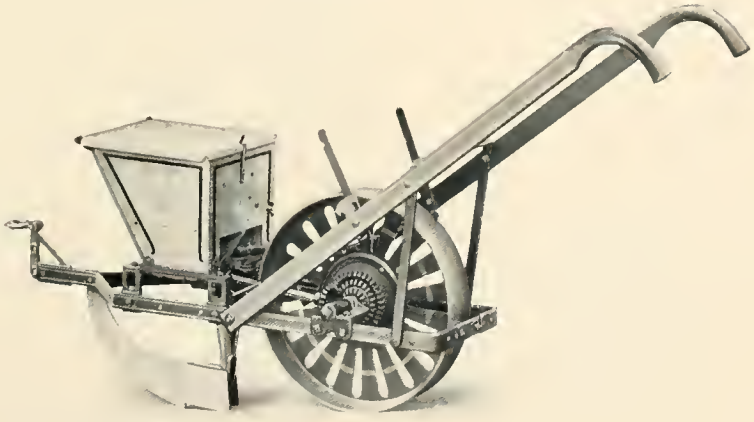
An attachment for drilling Sorghum and other small seeds is attached to each machine.

Corn Hopper, Inside View, Showing Seed Plate and Brush Cut-Off.

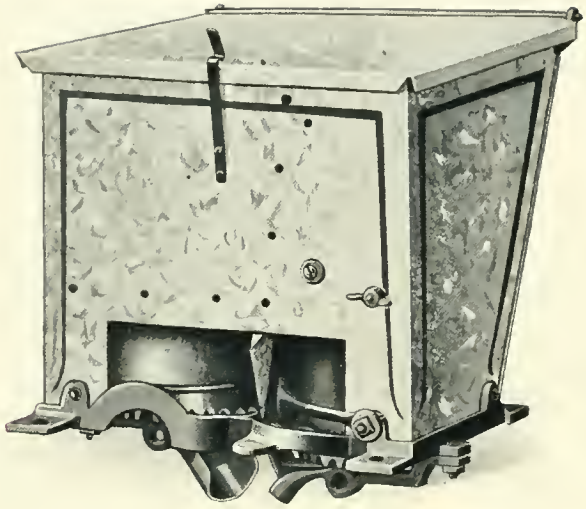


Empire Plain Shoe Corn Drill.

Empire Shoe Drills have three changes of speed on the 20-inch ground wheel for both plain and fertilizer drills. The two fertilizer cones, regularly shipped, give six quantity speeds for fertilizer. The two pinions for seed hopper with both plain and fertilizer drills provide for dropping distances of 8, 12, 18, 20 and 30 inches without change from ten-hole plates.



Empire Fertilizer Shoe Corn Drill.



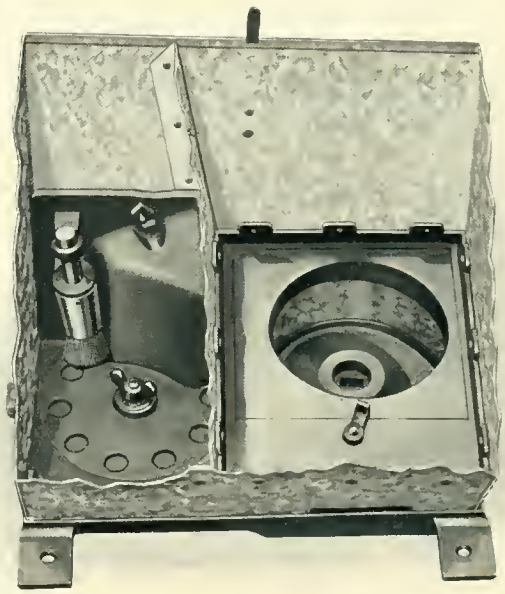
Fertilizer and Corn Hopper Combined, Rear View.

Empire Drills for drilling corn and fertilizer at the same operation are equipped with a two-compartment sheet iron hopper. The left side is devoted to corn and employs similar plates and cut-offs, described on a previous page. The right compartment is for drilling fertilizer and is equipped with an improved type of Marks feed, which has been standard with fertilizer sowers for so many years that its construction is generally understood. In the bottom of the fertilizer compartment a revolving cup is located which is turned by the feed shaft gear. Inside the cup is a stationary cone having an eccentric opening or lip in one side. The cone is closed at the top with lip opening near the revolving bottom of cup. In motion, the cone is at all times gathering the fertilizer from the revolving cup and delivering it in a steady stream. One revolution of the cup will deliver a certain quantity of fertilizer. To increase or diminish the quantity sown, it is only necessary to increase or diminish the speed of the cup. This is easily accomplished by using the different rings of cogs on ground wheel by means of the sliding pinion on feed shaft. Double quantity cones can be supplied if desired.

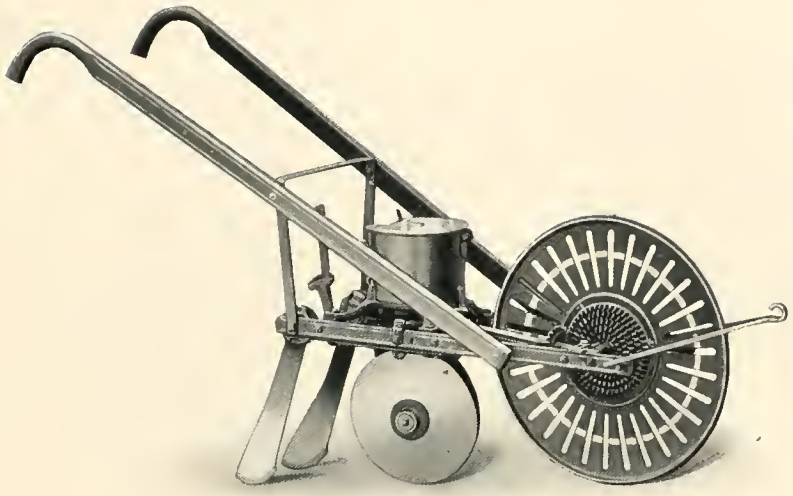
The seed and fertilizer both are discharged in plain sight of the operator. At all times it can be seen that the machine is doing the work properly and the hoppers are not empty, a feature greatly appreciated by operators.

The ordinary capacity of fertilizer feed is from 50 to 250 pounds per acre, depending somewhat upon condition of fertilizer. Farmers familiar with fertilizer know that different brands, heavy or light, cannot be handled in exactly the same amounts. Above quantity based on fertilizer weighing about two pounds per quart.

Pea Attachments consisting of a special seed plate working with the retaining cap may be obtained for drilling stock peas from the fertilizer hopper. By this simple arrangement both corn and peas may be drilled at same time and in same row.

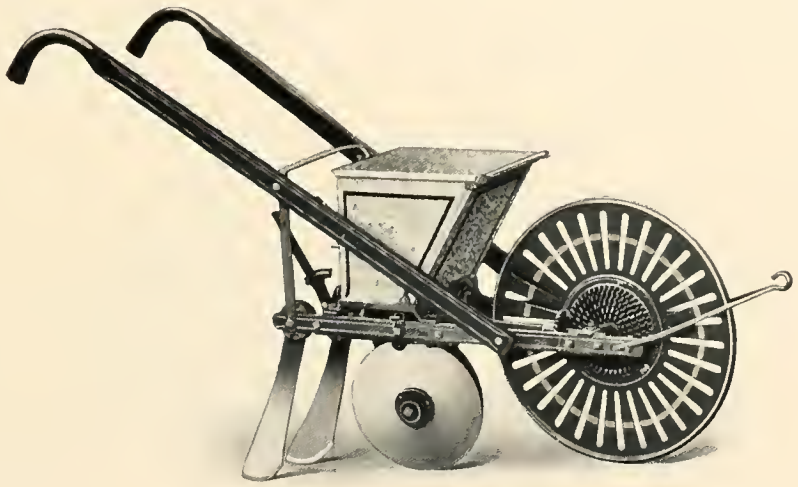


Fertilizer and Corn Hopper Combined, Inside View.



Empire Plain Disk Corn Drill.

Empire Disk Drills have five changes of speed on the 22½-inch ground wheel on plain and fertilizer drills, giving five changes of fertilizer quantities. With ten-hole seed plate in plain drills, or twelve-hole in fertilizer drills, single kernels of corn may be dropped 8, 10, 12, 17 or 25 inches apart.

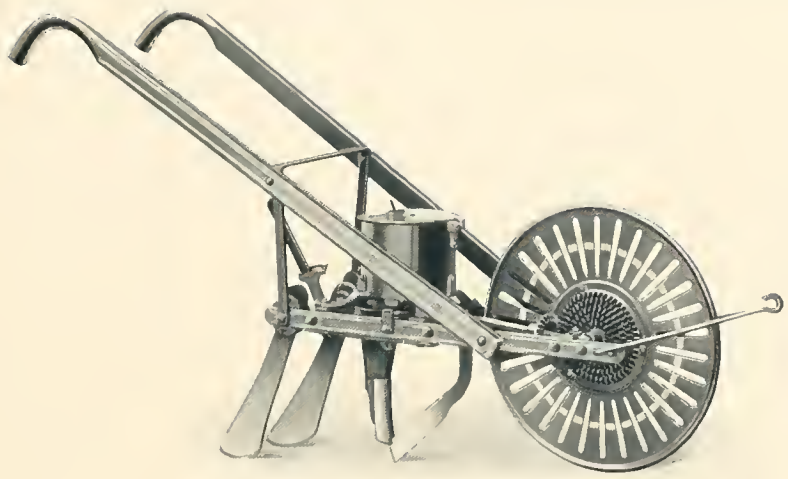


Empire Fertilizer Disk Corn Drill.

Empire Plain Disk Corn Drill with Covering Wheel.

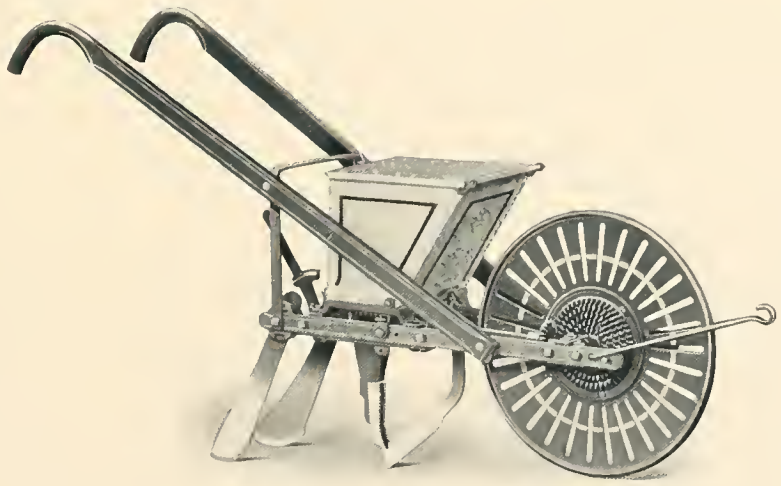
Disk and Hoe Drills, both plain and fertilizer, may be supplied with covering or press wheels in place of blade coverers. Wheels are 11½ inches in diameter, 4½-inch concave rim and 5-inch hub. Made of cast iron and weigh twelve pounds. Supplied with scraper and frame ready to attach.

Empire Plain Hoe Corn Drill with Covering Wheel.



Empire Plain Hoe Corn Drill.

Ground wheels 22½ inches in diameter are used on Empire Hoe Drills, both plain and fertilizer, both sides of wheel being supplied with five rings of cogs. Five different quantities of fertilizer may be sown. Plain drills with ten-hole seed plate, and fertilizer drills with twelve-hole seed plate will distribute single kernels of corn 8, 10, 12, 17 or 25 inches between kernels.



Empire Fertilizer Hoe Corn Drill.

Manufactured by

THE AMERICAN SEEDING-MACHINE COMPANY

(Incorporated)

RICHMOND, INDIANA, U. S. A.

Sold by

INTERNATIONAL HARVESTER COMPANY OF AMERICA

(Incorporated)

CHICAGO U S A